

No 35
Div 2
No 15 11th 5th
A dissertation

one

Ch
#17
Papered March 10th 1827
W. & H.

Acute Hepatitis

by

Robert Harrison

of

Virginia

1. *Staphylinus*

Staphylinus
1. 1. 1.

Staphylinus

Staphylinus

Staphylinus

Acute Hepatitis

When we contemplate the structure and admirable formation of the human body, the exquisite delicacy of its composition, it cannot excite our surprise, that it should become so frequently the subject of disease, particularly, when we reflect on the numerous and unavoidable ills, to which it is constantly exposed. The human body consists of different systems, all of which must harmonize and continue for the uninterrupted enjoyment of health. Every interruption of function is a source of disease, and disturbs the general system in proportion to its importance in the animal economy. In the constitution of the animal

machine; the liver performs no subordinate part; when diseased, one of its main wheels is clogged, upon which it depends for life and health. When we reflect upon the importance of this organ, its connection with the other viscera, the functions it performs in the economy of life, together with the intricate delicacy of its organization, we must necessarily conclude; that it will on many occasions, become the seat of extensive and serious maladies.

An intelligent writer observes "there is perhaps no viscus in the human frame, that is more importantly and critically connected with life and health, than the liver. Its function as a transmuting organ is not less indispensable, than its excretory office. The rest

mas of venous blood that is incessantly passing through it; and the materials, which it furnishes during its transit, for the formation of bile, render it of primary importance in estimating the diseased state of the chyliferous viscera. The large bulk of the liver, and its comparatively unmovable state, subject it to frequent encumbrances and occasional obstructions from the quantity of fluids destined to pass through it. The incipient stages of disease, arising from undue vascular fulness of the liver, naturally producing a low degree of excitability, permits real and often serious derangement of its healthy condition, without its being known by any correspondent sensation, that could denote such commencement of mischief.

The liver is liable to inflammation, which is generally divided by systematic writers into two kinds the acute and chronic.



[Faint, illegible handwriting covering the page, likely bleed-through from the reverse side.]

The former we have selected as the subject of
our inaugural dissertation. In this treatise,
we have endeavored to describe in a con-
cise manner, first the symptoms, which
introduce and characterize the disease;
secondly its remote and proximate causes;
thirdly its usual terminations, fourthly
and finally, the remedies acknowledged
to be proper in the different stages.

The inflammation of the liver, generally makes
its appearance, with the usual phenomena of
pyrexia. Concomitantly or soon afterwards,
a pain is felt in the right Hypochondrium,
which is rendered more violent and severe
on pressure. Not infrequently, indeed gen-
erally, the pain extends to the right shoulder.
But as an exception I recollect that Doct.
Schapman observed in his clinical lectures
on this disease, in women, it is most fre-

quently located in the right shoulder, attributed
to an inflammation of the right pleura & in
times. It is attended with dry cough, oppression
in respiration, nausea, sickness, often with vom-
iting of apparently bilious matter accompanied
with considerable fever, great watchfulness, and
occasional delirium. The alimentary canal
is constipated, especially its lower part, the
stools are ash coloured or yellow owing to a defi-
ciency of bile. The pulse will be found full,
hard and strong. The tongue will be loaded
with a yellow or dark fur, there is sometimes thick
deposition of fibrine (sp. of effusion), sometimes
livid and ultimately of virus excreted on
the affected side. Frequent in the vicini-
ty of the liver, in which there is usually
some degree of tension, produces an aug-
mentation in the violence of the pain,
and a tendency to cough. The urine con-



dergives an alteration, it is secreted in small quantities and is mostly high coloured. It is occasionally attended with jaundiced coloured skin owing to the bile, not readily getting into the common duct; by reason of the pressure of the inflamed liver on the *pancreas biliaris*.

The remote causes of this disease cannot at rays be satisfactorily ascertained; many authors in their fruitless and unavailing attempts to account for every thing, have enumerated and ended variety, some of which are ascribed upon a very shallow and uncertain foundation.

The following are enumerated as the most prominent causes of the disease: external injuries; injuries of the liver; by which the cranium is fractured, external lacerations of the vessels, violent summer heat, violent



exercise; intemperate use of acrid spirits; various solid concretions or collections of viscid matter in the substance of the liver, produced by unknown causes. We also find that our intermittent and remittent fevers cause its development. The acicula is sometimes the sequel of the chronic inflammation. It is said also to be produced by worms.

A diversity, and discrepancy of opinions have been advanced by authors, relative to the primary seat of this disease; some contend that the acute inflammation appears, when the extremities of the hepatic artery are affected, and the chronic, when the ramifications of the hepatic vein form the seat of the morbid action. The opinion, which, I think is entitled to the greatest confidence, locates the disease in the internal membrane.



It is of very little importance however, which
of these opinions is correct, in a practical
point. The acute disease may be situated
on the convexity or concavity of the surface
of the liver each of which is designated
by its own peculiar symptoms. In the
first case the pain becomes more men-
tulating, and pungent during inspiration
owing to a distention of the respiratory
organs. It is attended with more fever,
the respiration is more difficult, and it
is even frequently accompanied with sin-
gultus.

When the inflammation is situated on
the concavity of this important organ,
it may be distinguished by its being
accompanied with gastric uneasiness or
vomiting owing to its proximity to the
stomach, the latter viscus participating



in the diseased inflammatory action.

The usual terminations of this disease are by resolution, suppuration and gangrene. Its termination by resolution is the most salutary, and which should be the chief object and concern of the physician to produce. This generally happens when the cause producing the disease is not very violent, or when the disease is managed from the commencement with absolute and its remedies. Much however, will depend on the constitution of the patient, season of the year, and several accidental circumstances.

The tendency in the inflammation of the liver to terminate by suppuration may be discovered, by its long continuance without remission or abatement of its symptoms.



toms. The pain becomes of a pulsatory kind and the arterial circulation becomes fuller, softer and more voluminous. There is also considerable alteration of temperature; the skin, which was previously warm and dry, now becomes cold and the patient is affected with rigors and chills.

The time necessary for suppuration actually to take place is indefinite, dependant on a variety of circumstances, as the constitution and habit of the patient, the cause productive of the disease and its management from the commencement.

When actually established, there is a diminution or total cessation of pain. The patient is affected by oppression, frequently a distinct fluctuation is perceptible, and the redness of the skin partially disappears.



If the matter has collected immediately under the skin, forming an abscess, a tumour is discovered pointed and prominent. Sometimes a communication is formed, with the liver and thoracic cavity, in consequence of an erosion of the diaphragm and the matter is expectorated. On other occasions an adhesion takes place between the liver and stomach, or colon and finds a passage into the alimentary canal. When the abscess discharges itself into the abdominal cavity, the case almost invariably terminates fatally. If on one occasion discharged at the umbilicus, the case came under my observation, which from the singularity of it, we will describe. John Traylor, a blacksmith, was attacked with a pain in the right side, which continued



to the shoulder; accompanied by an increase
in activity of the sanguiferous system, a
considerable increase of temperature, and the
usual symptoms of the disease. This case
from neglect, or probably from the violence
of the disease, terminated by suppura-
tion. It was concluded, by the physicians
present, that an abscess formed in the
substance of the liver, the peritoneal
coat was removed by ulceration, and
a division formed between the peritoneum
and liver which provided an off. cl. al
barrier, to the escape of the purulent
matter into the peritoneal cavity. The
matter then traveled between the peri-
toneum and fascia transversalis, and
formed a tumour to the right of the
symphysis pubis which finally extended
at the umbilicus. By introducing the



probe, it might be passed upwards down-
wards and to the right side. This man
contrary to the opinions of the physicians,
was perfectly restored to health, by an en-
largement of the orifice, the application
of poultices and pursuing a tonic plan
of treatment. The attending physicians
were Doctors Liviatt, Johnston and
Eyes, all respectable and intelligent
graduates of this University.

After a description of the
symptoms, causes and termination of this
disease, we come next to the consideration
of the fourth part of our subject, which treats
of the means, by which the symptoms
may be removed or alleviated.

In the treatment of a cold &c. pleuritis,
the general means for alleviating the
advancement of inflammation are to be



rigidly enforced, by the strict employment
of the antiphlogistic regimen. The primary
object with the physician should be to
produce the most favourable termination,
which as we before observed, is resolution.
To fulfil this indication, he should
first resort to venisection, and detract
blood most copiously, from a large or
ifice, suffering it to be regulated, however
in proportion to the violence of fever,
severity of the pain and the effect pro-
duced. More advantage will accrue
from a plentiful bleeding in the com-
mencement of the attack, than from the
same quantity taken at several succes-
sive bleedings. Moreover the patient
will be more able to bear it, and its
beneficial effects will be more evident.
After general and copious bleeding, the



more early recourse should be had to
arresting than the part by compressing over
the hypochondriac region. This operation
should be repeated several times should
be in moderation in the same unless alle-
viation of pain or abatement in the in-
crease of vascular action. This is a most
critical stage of the disease and inter-
mission demands the most accurate treat-
ment. When cupping is objected to by the pa-
tient, it becomes necessary to substitute leeches
encouraging bleeding for some time, should
we benefit result from this application, resort
again to general bleeding, to suspend the
stimulus of the circulation, producing, in
fact, even an anæsthesia of the system; this however
must in part be left to the judgment
and observation of the practitioner.
Should the inflammation continue to



spread and attack the peritoneum, which may
be known by the sensibility of the abdomen,
when ever gently pressed upon, and the pec-
uliar position in which the patient is gen-
erally found; emulsion must not be
lost sight of, it is our main dependance,
our stout anchor, and must be repeated
again and again at short intervals,
until the disease is disposed to yield.
As it is an object of primary importance
to produce resolution, we must resort
to the whole antiphlogistic regimen.
The patient should be particular in his
diet which should be light and of the
farinaceous kind. Animal food, soup,
and every stimulating substance should
be strictly prohibited. The thirst should
be assuaged by cool drinks acidulated
with some vegetable acids. The patient



should be placed in a recumbent position
as much as possible; covering excluded
and the room free ventilation.

Cooperating with the plan of treatment
already decided, we must resort to purga-
tives, a class of medicines almost indispen-
sably requisite in every inflammatory dis-
ease. Of the purgatives adapted to the
treatment of inflammation of the liver, we
have a great variety. But those entitled
to its commencement are of the saline class.
These substances besides their purgative
properties, seem to produce beneficial effects
by the copious discharge of fluids, which
they occasion from the heating mucous
surface of the alimentary canal.

Large doses of calomel and sulphur may be
administered with decided advantage.
It is necessary, we should, however, use



nations daily. Simson says not only in
inflammation of the lungs but almost in every
in disease to which the human body is
liable, the period of twenty four hours
should not be allowed to elapse without
a stool. These steps being taken, we recom-
mend warm fomentations to the part affected,
to be repeated, when they become cold. If
these means do not succeed in moderating
the inflammation, a large blister may be ap-
plied over the right-hypochondriac re-
gion, partially covering the epigastrium.
Diaphoretics when properly exhibited
produce most salutary effects. The an-
timonial powder or Sever's powder may be
given with advantage. The selection of the
most appropriate diaphoretics demands
particular attention, and none should
be administered that is calculated to



increase the phlogistic diathesis, or augment the activity of the circulation, but on the contrary those which are calculated to reduce the arterial action and calm the irritability of the system. It is necessary to be cautious in the application of a blister. Its application after the sanguiferous system is reduced and the temperature of the skin diminished, is attended with the most beneficial effects, and is productive of the most salutary tendency. But if this be neglected it not only proves nugatory, but aggravates every symptom. The disease is increased in violence and rendered more formidable. After pursuing the course above described for four or five days, and the disease marches on with rapid progress, it becomes necessary to resort to mercury, which is not only to be exhibited internally, but applied locally until it has produced its own peculiar action. The quantity to be applied locally is a drachm

* Dr. Chapman

to be rubbed in every night. If it create much pain or subject the patient to much inconvenience, we may apply it to the groin. For its internal exhibition this fluid may be presented night and morning. When assistance has not been afforded in time, or the means have not succeeded in subduing the inflammation, we must promote the formation of alaudable pus. For which purpose we abandon the antiphlogistic error, support the patient by a nourishing yet digestible diet, administer bark and wine and apply an emollient poultice, which should be removed, when it becomes cold and stiff. The part should be softened by fomentations, and should the tumour point externally, and an evident accumulation of purulent matter, discovered by fluctuation, we should then make an incision and evacuate it internally.

During convalescence attention should be paid to diet, clothing and exercise — — —

